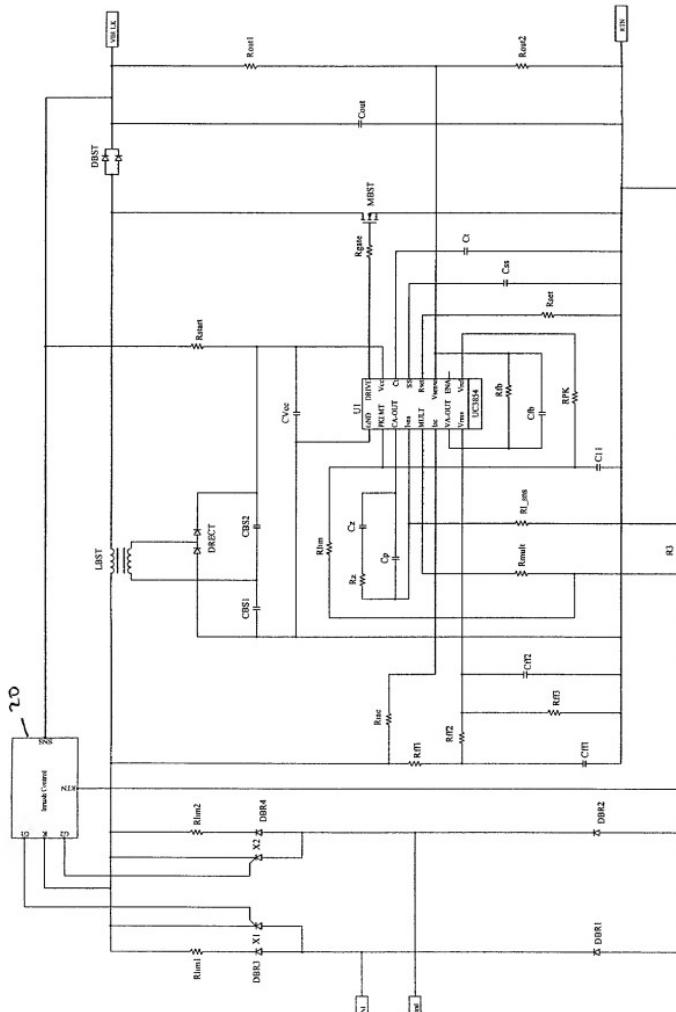


FIGURE 1 RELAY Based Inrush Control

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FIGURE 2 SCR Based Inrush Control



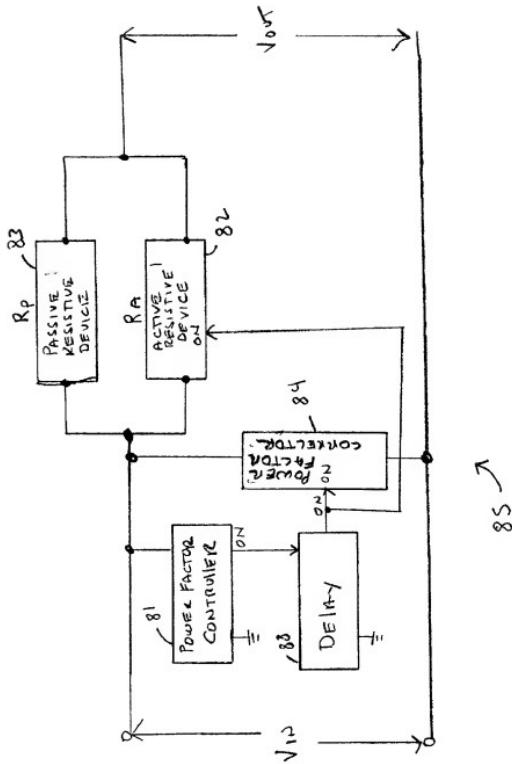


Fig. 3

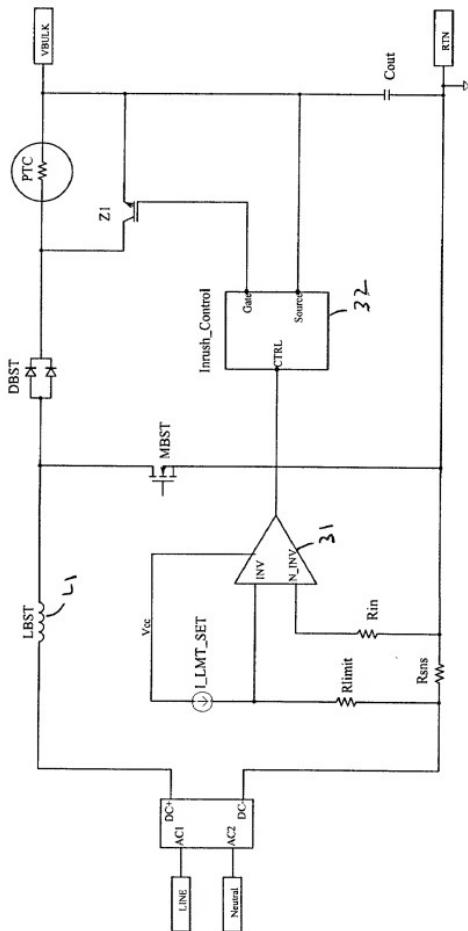


FIGURE 4.4 IGBT Based Inrush Control

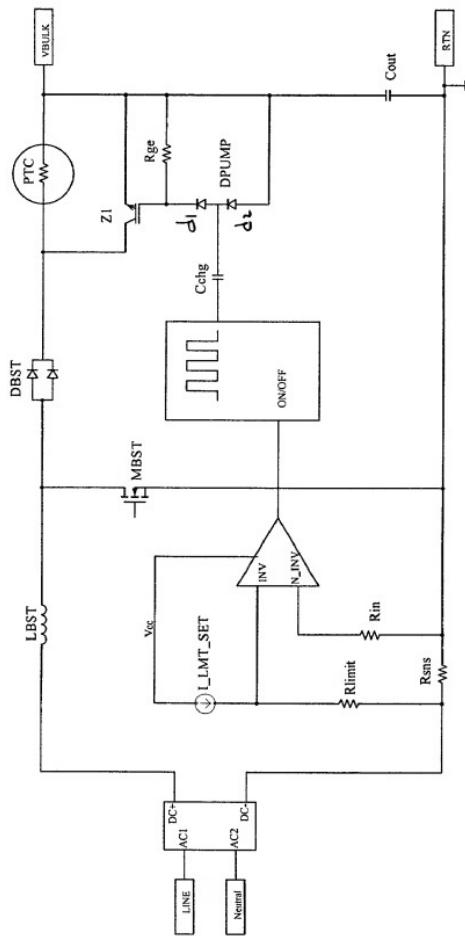
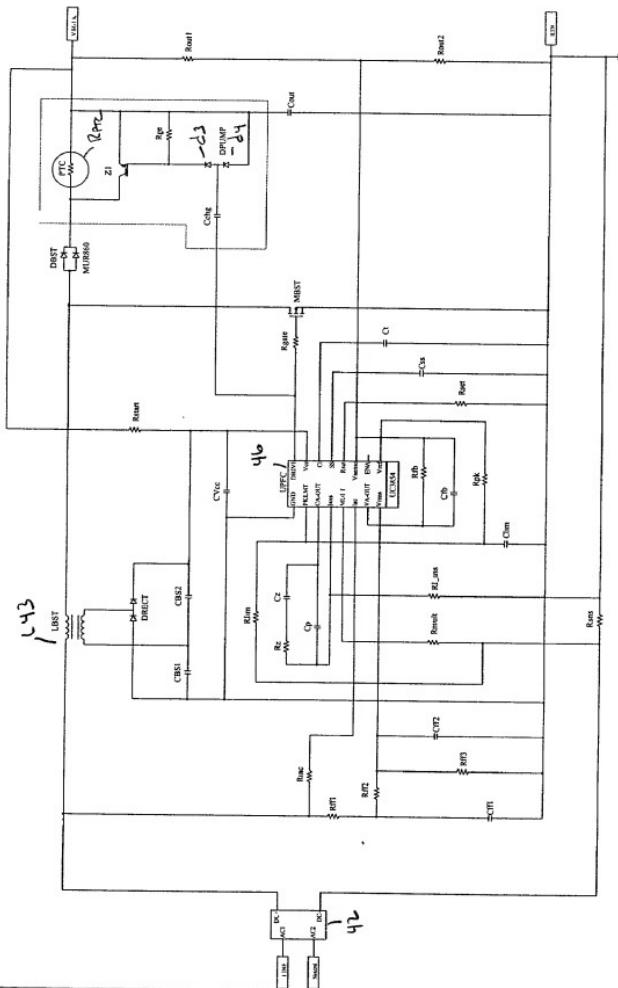


FIGURE 4.5 IGBT Based Inrush Control



**FIGURE 5** IGBT Based Inrush Control

Figure 6A-AC Input Line to Neutral Bridge

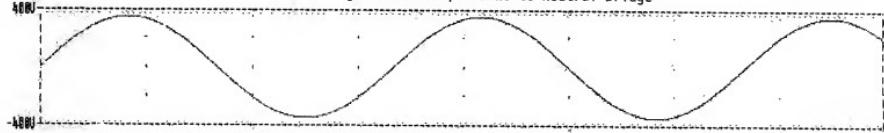


Figure 6B-Voltage Gate to Emitter of IGBT Z1

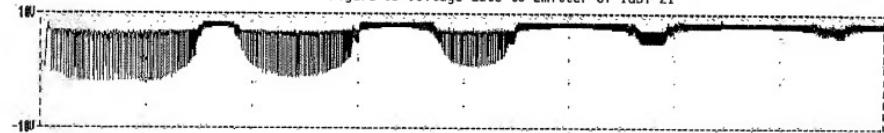


Figure 6C-Voltage Gate to Source of FET MBST

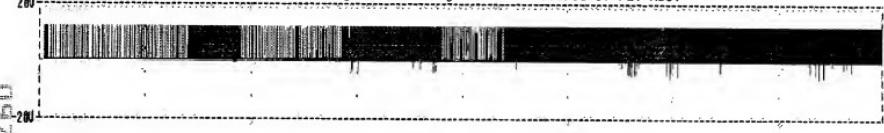


Figure 6D-Current through IGBT Z1 Collector

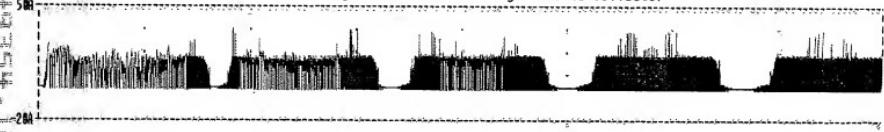


Figure 6E-Current through PTC Rptc

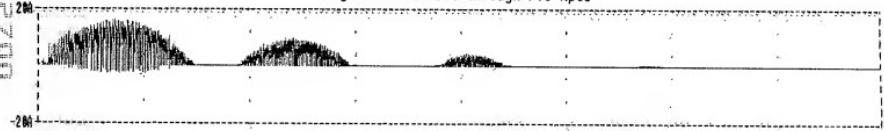


Figure 6F-Current into Line Input of Bridge

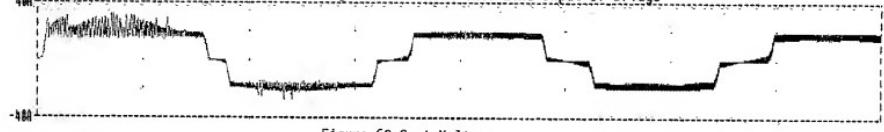


Figure 6G-Cout Voltage

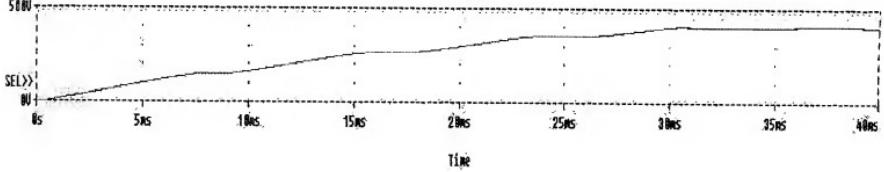


Figure 7

